

Re: Two questions

Source: <http://sci.tech--archive.net/Archive/sci.astro/2005-05/msg00057.html>

- *From:* "N:dlzc D:aol T:com \((dlzc)\)" <N: dlzc1 D:cox T:net@xxxxxxxxxx>
 - *Date:* Sat, 7 May 2005 14:46:55 -0700
-

Dear Volker Hetzer:

"Volker Hetzer" <volker.hetzer@xxxxxx> wrote in message
[news:d5j0ca\\$rrs\\$1@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:d5j0carrs1@xxxxxxxxxxxxxxxxxxxxxxxx)

> N:dlzc D:aol T:com (dlzc) wrote:

>

>>

>> The only thing I can add is that the Moon
>> has left a pretty continuous record in
>> "tidal rhythmites" over the last 2 billion years. Not that
>> the lunar recession is
>> entirely (or at all) due to universal
>> expansion. In lunar recession, angular
>> momentum transfer from the spinning
>> Earth to the Earth-Moon system is the major player.

> How does it get transferred?

Pour a little coffee (or tea, or beer) in a cup. Swirl it around, without using a spoon. How did you transfer angular momentum to the fluid? You moved the container (hopefully). Like a miner panning for gold.

The water on the Earth is like a "moving container", in that its (the water's) contribution to spacetime (sorry Bjoern) is always a little ahead of the Earth. The water sloshes momentum onto the Moon, and brakes the Earth with tidal friction. In periods "known" for high glaciation, the recorded lunar recession rate was low.

To repair any damage I probably did:

Google Advanced

all the words: Earth Moon

exact phrase: angular momentum

either word: tide tidal

from domains: .edu

only 610 hits, like:

URL:<http://csep10.phys.utk.edu/astr161/lect/moon/tidal.html>

URL:<http://burro.cwru.edu/Academics/Astr221/SolarSys/earthmoon.html>

Re: Two questions

URL:<http://www.sunspot.noao.edu/sunspot/pr/answerbook/expl-6.html>

> Lots of Greetings!

To you as well.

David A. Smith

• *Follow-Ups:*

- ◆ **Re: Two questions**
◇ *From:* Volker Hetzer

• *References:*

- ◆ **Two questions**
◇ *From:* Zdenek Jizba
- ◆ **Re: Two questions**
◇ *From:* N:dlzc D:aol T:com \((dlzc\)
- ◆ **Re: Two questions**
◇ *From:* Volker Hetzer

- Prev by Date: **Re: kookdancers digest**
- Next by Date: **Re: Two questions**
- Previous by thread: **Re: Two questions**
- Next by thread: **Re: Two questions**
- Index(es):
 - ◆ **Date**
 - ◆ **Thread**